



September 14, 2001

Kim Ogle, RCRA Project Manager United States EPA, Region 10 1200 Sixth Avenue Seattle, WA 98101

Re: September 15, 2001 Progress Report

I. H. Baxter Arlington Facility

Docket No. RCRA-10-2001-0086

7026-20

RECEIVED

SEP 1 7 2001

OFFICE OF WASTE & CHEM. MGMT. Anchorage





Chicago

Denver

Dear Ms. Ogle:

This letter provides the September 15, 2001 progress report for work completed under the Administrative Order on Consent (AOC) for the J. H. Baxter facility during the period August 7, 2001 to September 15, 2001.

Fairbanks

SIGNIFICANT DEVELOPMENTS THIS PERIOD

This section discusses all significant developments for the referenced reporting period, including actions performed and any problems encountered relative to work required by the Order. Significant developments that occurred on this project during this reporting period include:

Jersey City

- We received a draft sub-set of comments from EPA on the Site Investigation Work Plan on September 4, 2001.
- Juneau
- On September 10, 2001 we received a request from EPA to collect split samples during the next round of drinking water well sampling. The AOC and Drinking Water Work Plan require sampling approximately 6 months from the last sampling (conducted on June 26, 2001). Because this time period occurs during the Christmas holiday, we mutually agreed to conduct the sampling during the second week in January 2002.

Long Beach

On September 10, 2001 we received EPA's partial disapproval of the Excess Stormwater Management Work Plan requiring submittal of a Revised QAPP for the Excess Portland

Seattle



Stormwater Management Work Plan. Other elements of the system design and construction were approved, and design work has thus begun.

We are still awaiting Ecology's approval of the contained-in determination, however, we understand that this will forth be coming upon EPA's approval of the Excess Stormwater System.

ANTICIPATED DEVELOPMENTS NEXT PERIOD

This section discusses developments anticipated during the next reporting period and includes a schedule of actions to be performed.

- With approval of the excess stormwater system design work we are planning to complete the infiltrometer tests during the Week of September 16, 2001. These data will be used to complete the hydrologic analysis of the site and locate the infiltration areas. We have excluded the infiltration area along the south-eastern boundary of the site based on review of the available water level data, which indicates that water levels may come within 4 to 5 feet of ground surface in this area during wet winter months.
- We will be revising the QAPP for the Excess Stormwater Management System in accordance with Enclosure A of EPA's partial disapproval of the Excess Stormwater Management Work Plan. We have requested an extension to the requirement for this plan to be submitted within 15 days. If EPA grants the extension, the QAPP will be resubmitted on October 15, 2001.
- We are currently working to schedule a meeting with EPA to discuss the conceptual site model, data upon which the conceptual model is based, and the proposed work plan proposed to fill data gaps.

ANTICIPATED PROBLEMS AND PROBLEM RESOLUTION

This section discusses anticipated problems, and planned resolution of past or anticipated problems.

Other than the request for a 20-day extension on the required submittal date for the ESWMWP QAPP, there are no anticipated problems to report.

EPA September 14, 2001 7026-20 Page 3

OTHER INFORMATION

Any other information relevant to the Order is discussed in this section, including results of any sampling or testing completed within the reporting period.

■ The results of the July 2001 groundwater sampling conducted as part of the State Waste Discharge permit are included as Attachment A to this letter.

We trust this letter meets the intent of the Progress Report per Paragraph 71 of the AOC. Please let us know if you have any questions or comments on the work conducted to date or contents of this report.

Sincerely,

HART CROWSER, INC.

LORI HERMAN

Principal Hydrogeologist

C:\Data\Baxter\Order Deliverables\Progress Letter 9-15-01.doc

Attachment A: Memorandum Re: July 2001 Groundwater Quality Sampling Data

cc: Georgia Baxter, J. H. Baxter
Sara Beth Watson, Steptoe and Johnson



MEMORANDUM

Anchorage

DATE:

August 29, 2001

TO:

Project File

J.H. Baxter Groundwater Samples Chemistry Analytical Data

Boston

FROM:

Roger McGinnis, Hart Crowser

RE:

Data Quality Review of Laboratory Batches K2104874, K2104907,

Chicago

K2104914, and K2105011

July 2001, Groundwater Sampling Data

7026-03

CC:

Lori Herman, Hart Crowser

Denver

CHEMICAL DATA QUALITY REVIEW

Fairbanks

Eighteen groundwater samples (including three field duplicates and three field blanks) collected from the J.H. Baxter Arlington facility on July 9 - 12, 2001 were submitted to Columbia Analytical Services for analysis. Samples were analyzed for pentachlorophenol, dissolved metals, suspended solids, and conventional groundwater quality parameters (pH, conductivity, chloride, sulfate, nitrate, nitrite, ammonia, total organic carbon, total dissolved solids, chemical oxygen demand), tanins/lignins, and total coliform. The laboratory reported results as batches K2104874, K2104907, K2104914, and K2105011.

0

Juneau

Jersey City

Quality assurance/quality control (QA/QC) reviews of laboratory procedures were performed on an ongoing basis by the laboratory. Hart Crowser performed the data review, using laboratory quality control results summary sheets and raw data, as required, to ensure they met data quality objectives for the project. Data review followed the format outlined in the National Functional Guidelines for Organic Data Review (EPA 1994) and the National Functional Guidelines for Inorganic Data Review (EPA 1994) modified to include specific criteria of the individual analytical methods. The following criteria were evaluated in the standard data quality review process:

Long Beach

Portland

Holding times;

Method blanks;

Seattle



J.H. Baxter August 29, 2001

- Laboratory and field blank samples;
- Surrogate recoveries, when applicable;
- Laboratory and field duplicate samples; and
- Reporting limits.

The data were determined to be acceptable for use, with certain qualifiers. Results of the data reviews, organized by analysis class, follow.

Conventional Groundwater Parameters

Sample Preservation and Holding Times

The samples were collected in pre-preserved bottles. The temperature for BXN samples as received by the laboratory, were within the limits of 2 to 6 °C. BXN and BXS samples for total coliform and pH analysis were received several hours past the 24-hour holding time limit. Coliform and pH results were qualified as estimated (J). Coliform results may exhibit a high bias.

Laboratory Detection Limits

The laboratory achieved specified detection limits. Reported detection limits and analytical results were adjusted for any required dilution factors.

Blank Contamination

No target analytes were detected in laboratory blanks. Samples BXN-6 and BXS-5 were submitted to the laboratory as blind field blanks. Field blank sample BXN-6 contained 1.57 mg/L of ammonia. Sample results for this analyte were qualified as non-detected when sample concentrations were less than five times the concentration in the associated blanks.

Duplicate Sample Analysis

Sample BXN-5 was submitted to the laboratory as a "blind" duplicate of sample BXN-1 while BXS-6 was a duplicate of BXS-1. The relative percent difference between duplicate measurements was within QC criteria for analytes except conductivity and ammonia for samples BXN-1 and BXN-5, which had relative percent differences of 158 and 165 percent, respectively. Results for these analytes were qualified as estimated (J) for samples BXN-1 and BXN-5.

Metals

Sample Preservation and Holding Times

The samples were collected in pre-preserved bottles. The samples were prepared and analyzed within holding time limits of 6 months.

Laboratory Detection Limits

The laboratory achieved specified detection limits. Reported detection limits and analytical results were adjusted for any required dilution factors.

Blank Contamination

Samples MWB, BXN-6 and BXS-5 were submitted to the laboratory as blind field blanks. No target analytes were detected in laboratory or field blanks

Duplicate Sample Analysis

Sample BXN-5 was submitted to the laboratory as a "blind" duplicate of sample BXN-1, BXS-6 was a duplicate of BXS-1, and MWA was a duplicate of MW2. The relative percent difference between duplicate measurements met quality control limits of less than 35 percent for analytes.

Pentachlorophenol

Sample Preservation and Holding Times

Samples were preserved by cooling to 4 °C. The samples were extracted and analyzed within holding time limits of 7 and 40 additional days.

Laboratory Detection Limits

The laboratory achieved specified detection limits. Reported detection limits and analytical results were adjusted for any required dilution factors.



J.H. Baxter August 29, 2001

Calibration

The laboratory noted that the continuing calibration criteria were not met for the second, confirmation column. Results were reported using concentrations obtained from the primary column. No data qualification was required.

Blank Contamination

Sample MWB was submitted to the laboratory as a blind field blank. No target analytes were detected in laboratory or field blanks.

Surrogate Recovery

The surrogate compound recoveries were within laboratory QC limits.

Duplicate Sample Analysis

Sample MWA was submitted to the laboratory as a "blind" duplicate of sample MW2. The relative percent difference between duplicate analyses was within QC limits of less than 35 percent.

Attachments:

Table 1 - Groundwater Analytical Data Summary Groundwater Analytical Data Columbia Analytical Services, Inc.

F:\Docs\Jobs\702603\GW_Memo7_01.doc

| Groundwater Analytical | Data | | | | | | | Sheet 1 of |
|----------------------------------------------------|--------------|-----------|--------------|-----------|---------------------------|--------------------------|---------------|------------|
| Lab ID | K2104874-001 | | K2104874-003 | | | | | |
| Sample ID | BXN-1 | BXN-2 | BXN-3 | BXN-4 | BXN-5 | BXN-6 | BXS-1 | BXS-1 |
| Sampling Date | 7/09/2001 | 7/09/2001 | 7/09/2001 | 7/09/2001 | 7/09/2001 Dup of BXN-1 | 7/09/2001 Field Blank | 7/10/2001 | 7/10/2001 |
| Conventionals in mg/L * | | | | | | | | |
| Ammonia as Nitrogen Bicarb. Alkalinity as CaCO3 | 17 J | 1.1 UJ | 1.3 UJ | 18 | 1.64 UJ | 1.57 | 0.05 U 242 | |
| Chemical Oxygen Demand | 5 U | 7 | 30 | 31 | 6 | 5 U | 23 | |
| Chloride | 40.9 | 8.4 | 23 | 26.8 | 42.8 | 0.2 U | 5.6 | |
| Conductivity | 392 J | 224 | 705 | 647 | 3310 J | 2 U | 489 | |
| Nitrate+Nitrite as Nitrogen | 1.1 | 2.2 | 0.2 U | 0.5 | 1.1 | 0.2 U | 0.4 | |
| pH | 6.4 J | 6.5 J | 6.49 J | 6.7 J | 6.31 J | 5.61 J | 6.09 J | |
| Sulfate | 19.2 | 16.7 | 10.7 | 10 | 19.7 | 0.2 U | 7.2 | |
| Total Dissolved Solids | 226 | 134 | 424 | 316 | 230 | 10 U | 212 | |
| Total Organic Carbon | 1.7 | 2.3 | 8.5 | 10.4 | 2.4 | 0.5 U | 6.8 | |
| Tannin and Lignin | 0.7 | 0.3 | 2.8 | 2.9 | 0.5 | 0.2 U | 0.5 | |
| Coliforms in MPN/100 mL | 4 J | 2 UJ | 2 UJ | 2 UJ | 2 J | 2 UJ | 2 UJ | |
| Total Suspended Solids | s is | | | | | | | 5 U |
| Dissolved Metals in µg/L | | | | | | | | |
| Arsenic | 5 U | 5 U | 19 | 5 U | 5 U | 5 U | 5 U | |
| Barium | 19 | 7 | 119 | 120 | 20 | 5 U | 27 | |
| Cadmium | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | |
| Calcium | | | | | | | | 46800 |
| Copper | 10 U | 10 U | 10 U | 24 | 10 U | 10 U | 10 U | |
| Iron | 3340 | 20 U | 31300 | 48 | 3370 | 20 U | 20 U | 20 U |
| Magnesium | | | | | | | | 28700 |
| Manganese | 1510 | 849 | 4440 | 5330 | 1540 | 5 U | 396 | |
| Nickel | 39 | 26 | 44 | 73 | 36 | 20 U | 27 | |
| Potassium | | | | | | | | 2000 U |
| Sodium | | | | | | | | 12200 |
| Zinc | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | |
| Phenols in µg/L | | | | | A To | | | |
| Pentachlorophenol | | | | | | | | 25 |
| | | | | | | | | |

| Sheet 2 of 3 | 3 |
|--------------|---|

| roundwater Analytical I Lab ID | | K2104907-003 | K2104907-004 | K2104907-005 | K2104907-006 | K2105011-002 | K2105011-003 | K2105011-0 |
|-----------------------------------|-----------|--------------|--------------|--------------------------|---------------------------|--------------|--------------|------------|
| Sample ID | BXS-2 | BXS-3 | BXS-4 | BXS-5 | BXS-6 | HCMW5 | HCMW6 | HCMW7 |
| Sampling Date | 7/10/2001 | 7/10/2001 | 7/10/2001 | 7/10/2001 Field Blank | 7/10/2001 Dup of BXS-1 | 7/12/2001 | 7/11/2001 | 7/12/2001 |
| onventionals in mg/L * | | | | | | | | |
| Ammonia as Nitrogen | 0.05 U | 0.11 | 0.53 | 0.05 U | 0.05 U | | | |
| Bicarb. Alkalinity as CaCO3 | 496 | 498 | 96 | 2 U | 250 | | | |
| Chemical Oxygen Demand | 46 | 71 | 38 | 5 U | 24 | | | |
| Chloride | 6.7 | 4.4 | 2 | 0.2 U | 5.5 | | | |
| Conductivity | 890 | 885 | 193 | 2 U | 490 | | | |
| Nitrate+Nitrite as Nitrogen | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.4 | | | |
| рН | 6.44 J | 6.64] | 7.96 J | 5.53 J | 6.12 J | | | |
| Sulfate | 0.3 | 0.2 | 1.6 | 0.2 U | 7.1 | | | |
| Total Dissolved Solids | 320 | 420 | 134 | 5 U | 262 | | | |
| Total Organic Carbon | 15.1 | 25.9 | 9.3 | 0.5 U | 7.3 | | | |
| Tannin and Lignin | 1.4 | 6.4 | 0.4 | 0.2 U | 0.5 | | | |
| Coliforms in MPN/100 mL | 500 J | 2 UJ | 2 UJ | 2 UJ | 2 UJ | | | |
| Total Suspended Solids | | | | | | 5 U | 218 | 2910 |
| ssolved Metals in µg/L | | | | | | | | |
| Arsenic | 5 U | 9 | 5 | 5 U | 5 U | | | |
| Barium | 53 | 64 | 32 | 5 U | 27 | | | |
| Cadmium | 4 U | 4 U | 4 U | 4 U | 4 U | | | |
| Calcium | | | | | | 13200 | 10900 | 13000 |
| Copper | 10 U | 10 U | 10 U | 10 U | 10 U | | | |
| ron | 736 | 8530 | 438 | 20 U | 20 U | 20 U | 26 | 20 U |
| Magnesium | | | | | | 7660 | 7040 | 7790 |
| Manganese | 1540 | 17100 | 123 | 5 U | 400 | | | |
| Nickel | 41 | 38 | 20 U | 20 U | 26 | | | |
| Potassium | | | | | | 2000 U | 2000 U | 2000 U |
| Sodium | | | | | | 5560 | 4480 | 5880 |
| Zinc | 10 U | 10 U | 10 U | 10 U | 10 U | | | |
| enols in µg/L | | | | | | | | |
| Pentachlorophenol | | | | | | 0.5 U | 1.3 | 0.5 U |

| Gro | undw | ater | Anal | ytical | Data |
|-----|------|------|------|--------|------|
| | | | | | |

| Lab ID | K2105011-001 | K2105011-005 | K2105011-006 |
|---------------|--------------|--------------|--------------|
| Sample ID | MW2 | MWA | MWB |
| Sampling Date | 7/12/2001 | 7/12/2001 | 7/12/2001 |
| | | Dup of MW2 | Field Blank |

Sec. 1

Conventionals in mg/L *

Phenols in µg/L

Pentachlorophenol

Ammonia as Nitrogen Bicarb. Alkalinity as CaCO3 Chemical Oxygen Demand Chloride Conductivity Nitrate+Nitrite as Nitrogen рН Sulfate Total Dissolved Solids Total Organic Carbon Tannin and Lignin Coliforms in MPN/100 mL **Total Suspended Solids** 5 U 5 U 5 U Dissolved Metals in µg/L Arsenic Barium Cadmium 10600 Calcium 50 U 10600 Copper 20 U 20 U 20 U Iron Magnesium 6660 6560 Manganese Nickel 2000 U 2000 U 2000 U Potassium 100 U 5520 Sodium 5660 Zinc

0.5 U

0.5 U

0.5 U

^{*} Units for conventionals are mg/L unless otherwise noted.

Unot detailed at detection limit indecoluse

J estimated concentration



August 7, 2001

Service Request No: K2105011

K2104914

Richard Morales J.H. Baxter Company 1700 El Camino Real P.O. Box 5902 San Mateo, CA 94402-0902

Re: Permit Monitoring Wells

Dear Richard:

Enclosed are the results of the sample(s) submitted to our laboratory on July 14, 2001. For your reference, these analyses have been assigned our service request number K2105011.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3345.

Respectfully submitted,

montalin

Columbia Analytical Services, Inc.

Mingta Lin

Project Chemist

ML/II

Page 1 of

cc: Mary Larson, J.H. Baxter (Arlington) Lori Herman, Hart Crowser (Seattle)

Client:

J.H. Baxter & Company

Service Request No.:

K2104914

K2105011

Project:

Permit Monitoring Wells

Date Received:

July 11 & 14, 2001

Sample Matrix:

Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier I data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses.

Sample Receipt

Seven water samples were received for analysis at Columbia Analytical Services on July 11 &14, 2001. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Inorganic Parameters

No QA/QC anomalies were observed during the analysis of these samples.

Dissolved Metals

No QA/QC anomalies were observed during the analysis of these samples.

Pentachlorophenols by EPA Method 8151M

CCV Exceptions:

The analysis of Pentachlorophenol requires the use of dual column conformation. When the CCV criterion is acceptable for both columns, the higher of the two results is generally reported. If one of the CCV's is outside of the control criteria, results are reported from the column with a CCV with acceptable criterion.

The primary evaluation was not met on the confirmation column for Pentachlorophenol in the following Continuing Calibration Verifications CCV 0719F029. Results for this analyte has been reported from the other column. The data quality has not been affected. No further corrective action was necessary.

Date 8/6/01

Analytical Report

Client:

J.H. Baxter & Company

Project:

Permit Monitoring Wells

Sample Matrix: Water

Service Request: K2105011 Date Collected: 7/11-12/01

Date Received: 7/14/01

Date Extracted: NA

Date Analyzed: 7/18, 19/01

Solids, Total Suspended (TSS) EPA Method 160.2 Units: mg/L (ppm)

| Sample Name | Lab Code | MRL | Result |
|--------------|--------------|-----|--------|
| | | | 1 |
| MW2 | K2105011-001 | 5 | ND |
| HCMW5 | K2105011-002 | 5 | ND |
| HCMW6 | K2105011-003 | 5 | 218 |
| HCMW7 | K2105011-004 | 5 | 2910 |
| MWA MW-Z dap | | 5 | ND |
| MWB F. IJ 6 | K2105011-006 | 5 | ND |
| Method Blank | K2105011-MB | 5 | ND |
| Method Blank | K2105011-MB | 5 | ND |
| | | | |

8/24/01

Approved By:

IAMRL/102594 05011WET.PW1 - TSS 7/26/01 Date: 1/30/0/

Analytical Report

Client: Project: J.H. Baxter & Company

Sample Matrix:

Permit Monitoring Wells

Water

Service Request: K2105011 Date Collected: 7/12/01

Date Received: 7/14/01

Dissolved Metals

Sample Name: Lab Code:

Test Notes:

MW2

K2105011-001

Units: ug/L (ppb) Basis: NA

| Analyte | Prep Method | Analysis Method | MRL | Dilution Factor | Date Extracted | Date Analyzed | Result | Result Notes |
|-----------|----------------|--------------------|------|--------------------|-------------------|------------------|--------|-----------------|
| Calcium | CLAA | 6010B | 50 | 1 | 7/18/01 | 7/25/01 | 10600 | |
| Iron | CLAA | 6010B | 20 | 1 | 7/18/01 | 7/25/01 | ND | |
| Magnesium | CLAA | 6010B | 20 | 1 | 7/18/01 | 7/25/01 | 6660 | |
| Potassium | CLAA | 6010B | 2000 | 1 | 7/18/01 | 7/25/01 | ND | |
| Sodium | CLAA | 6010B | 100 | 1 | 7/18/01 | 7/25/01 | 5660 | |

8/24/01

Approved By: 1544/052595 050111CP.EA1 - Sample 7/27/01

Date: 7/27/6

011006

Analytical Report

Client: Project: J.H. Baxter & Company Permit Monitoring Wells

Sample Matrix:

Water

Service Request: K2105011 Date Collected: 7/11/01 Date Received: 7/14/01

Dissolved Metals

Sample Name: Lab Code: HCMW6 K2105011-003 Units: ug/L (ppb)
Basis: NA

Test Notes:

| Analyte | Prep Method | Analysis Method | MRL | Dilution Factor | Date Extracted | Date Analyzed | Result | Result Notes |
|-----------|----------------|--------------------|------|--------------------|-------------------|------------------|--------|-----------------|
| Calcium | CLAA | 6010B | 50 | 1 | 7/18/01 | 7/25/01 | 10900 | |
| Iron | CLAA | 6010B | 20 | 1 | 7/18/01 | 7/25/01 | 26 | |
| Magnesium | CLAA | 6010B | 20 | 1 | 7/18/01 | 7/25/01 | 7040 | |
| Potassium | CLAA | 6010B | 2000 | 1 | 7/18/01 | 7/25/01 | ND | |
| Sodium | CLAA | 6010B | 100 | 1 | 7/18/01 | 7/25/01 | 4480 | |

8/24/01

Approved By: ___

050111CP.EA1 - Sample (3) 7/27/01

of Bruso

Date: 7/27/6/

011108

Analytical Report

Client: Project: Sample Matrix:

J.H. Baxter & Company Permit Monitoring Wells

Water

Service Request: K2105011 Date Collected: 7/12/01 Date Received: 7/14/01

Dissolved Metals

Sample Name: Lab Code:

Test Notes:

HCMW7 K2105011-004 Units: ug/L (ppb)

Basis: NA

| Analyte | Prep Method | Analysis Method | MRL | Dilution Factor | Date Extracted | Date Analyzed | Result | Result Notes |
|-----------|----------------|--------------------|------|--------------------|-------------------|------------------|--------|-----------------|
| Calcium | CLAA | 6010B | 50 | 1 | 7/18/01 | 7/25/01 | 13000 | |
| Iron | CLAA | 6010B | 20 | 1 | 7/18/01 | 7/25/01 | ND | |
| Magnesium | CLAA | 6010B | 20 | 1 | 7/18/01 | 7/25/01 | 7790 | |
| Potassium | CLAA | 6010B | 2000 | 1 | 7/18/01 | 7/25/01 | ND | |
| Sodium | CLAA | 6010B | 100 | 1 | 7/18/01 | 7/25/01 | 5880 | |

Approved By: 1544/052595 050111CP.EA1 - Sample (4) 7/27/01

Date: 7/27/6(

011009

Analytical Report

Client: Project: J.H. Baxter & Company Permit Monitoring Wells

Water

Service Request: K2105011 Date Collected: 7/12/01 Date Received: 7/14/01

Dissolved Metals

Sample Name: Lab Code: Test Notes:

Sample Matrix:

MWA K2105011-005 MW-2 duplicaTe

Units: ug/L (ppb)
Basis: NA

| Analyte | Prep Method | Analysis Method | MRL | Dilution Factor | Date Extracted | Date Analyzed | Result | Result Notes |
|-----------|----------------|--------------------|------|--------------------|-------------------|------------------|--------|-----------------|
| Calcium | CLAA | 6010B | 50 | 1 | 7/18/01 | 7/25/01 | 10600 | |
| Iron | CLAA | 6010B | 20 | 1 | 7/18/01 | 7/25/01 | ND | |
| Magnesium | CLAA | 6010B | 20 | 1 | 7/18/01 | 7/25/01 | 6560 | |
| Potassium | CLAA | 6010B | 2000 | 1 | 7/18/01 | 7/25/01 | ND | |
| Sodium | CLAA | 6010B | 100 | 1 | 7/18/01 | 7/25/01 | 5520 | |

R7m 8/24/01

Approved By: 1544/052595 050111CP.EA1 - Sample (5) 7/27/01

Date: 7 (27/0)

Analytical Report

Client: Project: J.H. Baxter & Company Permit Monitoring Wells

Sample Matrix:

Water

Service Request: K2105011 Date Collected: 7/12/01

Date Received: 7/14/01

Dissolved Metals

Sample Name: Lab Code:

Test Notes:

MWB K2105011-006 Field

Blank

Units: ug/L (ppb) -Basis: NA

| Analyte | Prep Method | Analysis Method | MRL | Dilution Factor | Date Extracted | Date Analyzed | Result | Result Notes |
|-----------|----------------|--------------------|------|--------------------|-------------------|------------------|--------|-----------------|
| Calcium | CLAA | 6010B | 50 | 1 | 7/18/01 | 7/25/01 | ND | |
| Iron | CLAA | 6010B | 20 | 1 | 7/18/01 | 7/25/01 | ND | |
| Magnesium | CLAA | 6010B | 20 | 1 | 7/18/01 | 7/25/01 | ND | |
| Potassium | CLAA | 6010B | 2000 | 1 | 7/18/01 | 7/25/01 | ND | |
| Sodium | CLAA | 6010B | 100 | 1 | 7/18/01 | 7/25/01 | ND | |

pun 9/11/01

Approved By: 1544/052595

05011ICP.EA2 - Sample (6) 8/28/01

Date: 828/01

Analytical Results

Client: ?roject: J.H. Baxter & Company Permit Monitoring Wells

Sample Matrix:

Water

Service Request: K2105011 Date Collected: 07/12/2001

Date Received: 07/14/2001

Pentachlorophenol

sample Name:

MW2

_ab Code:

K2105011-001

Extraction Method:

analyte Name

'entachlorophenol

METHOD

Units: ug/L Basis: NA

Level: Low

analysis Method:

8151M

| Result (| Q | MRL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|----------|---|------|--------------------|-------------------|------------------|-------------------|------|
| ND U | J | 0.50 | 1 | 07/17/01 | 07/19/01 | KWG0104232 | |

| urrogate Name | %Rec | Control Limits | Date Analyzed | Note | |
|---------------------------|------|-------------------|------------------|------------|--|
| -Bromo-2,6-dichlorophenol | 71 | 40-100 | 07/19/01 | Acceptable | |

8/24/01

omments:

Analytical Results

Client: Project: J.H. Baxter & Company Permit Monitoring Wells

Sample Matrix:

Water

Service Request: K2105011

Date Collected: 07/12/2001

Date Received: 07/14/2001

Pentachlorophenol

Sample Name:

HCMW5

Lab Code:

K2105011-002

Extraction Method:

METHOD

Analysis Method:

8151M

Units: ug/L Basis: NA

Level: Low

Dilution

Date

Date Analyzed

Extraction

Analyte Name Pentachlorophenol Result Q ND U

92

MRL 0.50

Factor 1

Extracted 07/17/01

07/19/01

Lot Note

KWG0104232

Surrogate Name 4-Bromo-2,6-dichlorophenol

Control %Rec Limits

40-100

Date Analyzed

07/19/01

Note

Acceptable

8/24/01

Comments:

011113

Page 1 of 1 SuperSet Reference: RR9297

Printed: 07/20/2001 13:14:22 Form 1A - Organic Merged

Analytical Results

Client: Project:

J.H. Baxter & Company Permit Monitoring Wells

Sample Matrix:

Water

Service Request: K2105011 Date Collected: 07/11/2001

Date Received: 07/14/2001

Pentachlorophenol

iample Name:

HCMW6

ab Code:

K2105011-003

Extraction Method: METHOD

Units: ug/L Basis: NA

Level: Low

analysis Method:

-8151M

| analyte Name | Result Q | MRL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|--------------------|----------|------|--------------------|-------------------|------------------|-------------------|------|
| -'entachlorophenol | 1.3 | 0.50 | 1 | 07/17/01 | 07/19/01 | KWG0104232 | |

| urrogate Name | %Rec | Control Limits | Date Analyzed | Note | |
|---------------------------|------|-------------------|------------------|------------|--|
| -Bromo-2,6-dichlorophenol | 90 | 40-100 | 07/19/01 | Acceptable | |

x nm 8/24/01

omments:

Analytical Results

Client: Project:

J.H. Baxter & Company Permit Monitoring Wells

Sample Matrix:

Water

Service Request: K2105011 Date Collected: 07/12/2001

Date Received: 07/14/2001

Pentachlorophenol

sample Name:

HCMW7

ab Code:

K2105011-004

Extraction Method: Analysis Method: METHOD 8151M Units: ug/L

Basis: NA

Level: Low

analyte Name

MRL

Dilution Factor Date Extracted Date Analyzed Extraction Lot

Note

entachlorophenol

Result Q

ND U

0.50

07/17/01

07/19/01

KWG0104232

INO

| urrogate Name | %Rec | Control Limits | Date Analyzed | Note | |
|---------------------------|------|-------------------|------------------|------------|--|
| -Bromo-2,6-dichlorophenol | 69 | 40-100 | 07/19/01 | Acceptable | |

8/24/01

omments:

Analytical Results

Client: Project: J.H. Baxter & Company Permit Monitoring Wells

Sample Matrix:

Water

Service Request: K2105011

Date Collected: 07/12/2001

Date Received: 07/14/2001

Pentachlorophenol

Sample Name:

MWA

Lab Code:

K2105011-005

MW-2

dup licate

Units: ug/L

Basis: NA Level: Low

Extraction Method: Analysis Method:

METHOD

8151M

Dilution Date Date Extraction **Analyte Name** Result Q MRL Factor Extracted Analyzed Lot Note Pentachlorophenol ND U 0.50 1 07/17/01 07/19/01 KWG0104232

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note | |
|----------------------------|------|-------------------|------------------|------------|--|
| 4-Bromo-2,6-dichlorophenol | 75 | 40-100 | 07/19/01 | Acceptable | |

8/24/01

Comments:

Analytical Results

Client: Project: J.H. Baxter & Company Permit Monitoring Wells

Sample Matrix:

Water

Service Request: K2105011

Date Collected: 07/12/2001

Date Received: 07/14/2001

Pentachlorophenol

Sample Name: Lab Code:

MWB

F.elt

B1--12

Units: ug/L

K2105011-006

Basis: NA

Extraction Method:

METHOD

Level: Low

Analysis Method:

8151M

Dilution Date Date Extraction **Factor** Extracted Analyzed

Analyte Name

Result Q

MRL

1 07/17/01 07/19/01

Lot Note

Pentachlorophenol

ND U

0.50

KWG0104232

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note | |
|----------------------------|------|-------------------|------------------|------------|--|
| 4-Bromo-2,6-dichlorophenol | 56 | 40-100 | 07/19/01 | Acceptable | |

Rym 8/24/01

Comments:

Page 1 of 1

Form 1A - Organic

'rinted: 07/20/2001 13:14:28



August 7, 2001

Service Request No: K2104874

K2104907

Richard Morales
J.H. Baxter Company
1700 El Camino Real
P.O. Box 5902
San Mateo, CA 94402-0902

Re: J.H. Baxter & Co./BXS/BXN Wells

Dear Richard:

Enclosed are the results of the sample(s) submitted to our laboratory on July 10, 2001. For your reference, these analyses have been assigned our service request number K2104874.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3345.

Respectfully submitted,

mintulin

Columbia Analytical Services, Inc.

Mingta Lin

Project Chemist

ML/ll

Page 1 of 22

cc: Mary Larson, J.H. Baxter (Arlington) Lori Herman, Hart Crowser (Seattle)

Client:

J.H. Baxter & Company

Service Request No.:

K2104874

Project:

BXS/BXN Wells

Date Received:

K2104907 July 10 & 11, 2001

Sample Matrix:

Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier I data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses.

Sample Receipt

Twelve water samples were received for analysis at Columbia Analytical Services on July 10 &11, 2001. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Inorganic Parameters

The samples were receive past the recommended holding time of 24 hours for Total Coliform and pH analysis.

No QA/QC anomalies were observed during the analysis of these samples.

Dissolved Metals

No QA/QC anomalies were observed during the analysis of these samples.

| Date | 817/01 | |
|------|--------|--|
| | | |

Analytical Report

Client:

J.H. Baxter & Company

Project:

Sample Matrix: Water

Permit Monitoring Wells

Service Request: K2104914 Date Collected: 7/10/01 Date Received: 7/11/01

Date Extracted: NA Date Analyzed: 7/12/01

Solids, Total Suspended (TSS) EPA Method 160.2 Units: mg/L (ppm)

| Sample Name | Lab Code | MRL | Result |
|--------------|--------------|-----|--------|
| BXS-1 | K2104914-001 | 5 | ND |
| Method Blank | K2104914-MB | 5 | ND |

8/24/01

Approved By:

04914WET.PW1 - TSS 7/25/01

UN1021

Analytical Report

Client:

J.H. Baxter & Company

Project:

Permit Monitoring Wells

Sample Matrix: Water

Service Request: K2104914

Date Collected: 7/10/01 Date Received: 7/11/01

Date Extracted: 7/23/01

Dissolved Metals Units: µg/L (ppb)

| | | Sample Name: Lab Code: Date Analyzed: | BXS-1 K2104914-001 7/23/01 | Method Blank K2104914-MB 7/23/01 |
|-----------|--------|---------------------------------------------|-----------------------------------------|----------------------------------------|
| | EPA | | | |
| Analyte | Method | MRL | | |
| Calcium | 6010B | 50 | 46800 | ND |
| Iron | 6010B | 20 | ND | ND |
| Magnesium | 6010B | 20 | 28700 | ND |
| Potassium | 6010B | 2000 | ND | ND |
| Sodium | 6010B | 100 | 12200 | ND |

Approved By:

3S30EPA/102094 04914ICP.JC1 - Sample 7/24/01

Date: 7/2401

Analytical Results

Client: Project:

J.H. Baxter & Company Permit Monitoring Wells

Sample Matrix:

Water

Service Request: K2104914 Date Collected: 07/10/2001 Date Received: 07/11/2001

Pentachlorophenol

Sample Name:

BXS-1

Lab Code:

K2104914-001

Extraction Method: METHOD Analysis Method:

8151M

Units: ug/L Basis: NA

Level: Low

| Analyte Name | Result Q | MRL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-------------------|----------|------|--------------------|-------------------|------------------|-------------------|------|
| Pentachlorophenol | 25 | 0.50 | 1 | 07/12/01 | 07/19/01 | KWG0104126 | - |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note | |
|----------------------------|------|-------------------|------------------|------------|--|
| 1-Bromo-2,6-dichlorophenol | 80 | 40-100 | 07/19/01 | Acceptable | |

8/24/01

omments:

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inted: 07/20/2001 09:28:55

Form 1A - Organic

01023 Page 1 of 1

SuperSet Reference: RR9276

Analytical Report

Client:

J.H. Baxter & Company

Project:

Arlington Plant Groundwater/BXS-WELLS

Sample Matrix: Water

Service Request: K2104907

Date Collected: 7/10/01

Date Received: 7/11/01 Date Extracted: NA

Inorganic Parameters

Units: mg/L (ppm)

Sample Name:

BXS-1

BXS-2

BXS-3

Lab Code:

K2104907-001

K2104907-002

K2104907-003

| | | | 122101707 001 | 104707-002 | N2104907-003 |
|---------------------------------------------|---------------|------|---------------|------------|--------------|
| Analyte | EPA Method | MRL | | | |
| pH (units) | 150.1 | | 6.09 5 | 6.44 J | 6.64 7 |
| Conductivity (µmhos/cm) | 120.1 | 2 | 489 | 890 | 885 |
| Bicarbonate Alkalinity as CaCO ₃ | SM 2320B | 2 | 242 | 496 | 498 |
| Ammonia as Nitrogen | 350.1 | 0.05 | ND | ND | 0.11 |
| Chemical Oxygen Demand (COD) | 410.2 | 5 | 23 | 46 | 71 |
| Chloride | 300.0 | 0.2 | 5.6 | 6.7 | 4.4 |
| Nitrate+Nitrite as Nitrogen | 353.2 | 0.2 | 0.4 | ND | ND |
| Solids, Total Dissolved (TDS) | 160.1 | 5 | 212 | 320 | 420 |
| Sulfate | 300.0 | 0.2 | 7.2 | 0.3 | 0.2 |
| Tannin and Lignin | SM 5550B | 0.2 | 0.5 | 1.4 | 6.4 |
| Carbon, Total Organic (TOC) | 415.1 | 0.5 | 6.8 | 15.1 | 25.9 |
| | | | | | |

8/24/01

SM

Standard Methods for the Examination of Water and Wastewater, 18th Ed., 1992.

Approved By:

3S30EPA/102094

04907WET.PW1 - Mixed 7/25/01

U11105

Analytical Report

Client:

J.H. Baxter & Company

Project:

Arlington Plant Groundwater/BXS-WELLS

Sample Matrix: Water

Service Request: K2104907

Date Collected: 7/10/01 Date Received: 7/11/01 Date Extracted: NA

Inorganic Parameters

Units: mg/L (ppm)

FicId Blank 0×5-1 Duplicate

Sample Name:

BXS-4

BXS-5

BXS-6

Lab Code:

K2104907-004

K2104907-005

K2104907-006

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SM

Standard Methods for the Examination of Water and Wastewater, 18th Ed., 1992.

Approved By:

3S30EPA/102094

04907WET.PW1 - Mixed (2) 7/25/01

Date: 725701

011006

Analytical Report

Client:

J.H. Baxter & Company

Project:

Arlington Plant Groundwater/BXS-WELLS

Sample Matrix: Water

Service Request: K2104907

Date Collected: 7/10/01

Date Received: 7/11/01

Date Extracted: NA Date Analyzed: 7/11/01

Coliform, Total SM 9221B Units: MPN/100 ml

| Sample Nan | ne | | Lab Code | MRL | Time Test Started | | Result |
|------------|-------|------------|--------------|-----|----------------------|-----|--------|
| BXS-1 | | | K2104907-001 | 2 8 | 1600 | hrs | ND42 |
| BXS-2 | | | K2104907-002 | 2 | 1600 | hrs | 500 J |
| BXS-3 | | | K2104907-003 | 2 | 1600 | hrs | ND45 |
| BXS-4 | | | K2104907-004 | 2 | 1600 | hrs | NDUT |
| BXS-5 | =;eld | Blust | K2104907-005 | 2 | 1600 | hrs | NDU5 |
| BXS-6 B | x5-1 | Dup liture | K2104907-006 | 2 | 1600 | hrs | NDUJ |

SM

Standard Methods for the Examination of Water and Wastewater, 18th Ed., 1992.

Approved By:

04907WET.PWI - BacTC 7/25/01

Analytical Report

Client:

Zinc

J.H. Baxter & Company

Project:

Arlington Plant Groundwater/BXS-WELLS

Sample Matrix: Water

6010B

Date Collected: 7/10/01 Date Received: 7/11/01 Date Extracted: 7/16/01

Service Request: K2104907

Dissolved Metals Units: µg/L (ppb)

| | | Sample Name: Lab Code: | BXS-1 K2104907-001 | BXS-2 K2104907-002 | BXS-3 K2104907-003 |
|-----------|---------------|---------------------------|-----------------------|-----------------------|-----------------------|
| | | Date Analyzed: | 7/17-23/01 | 7/17-23/01 | 7/17-23/01 |
| Analyte | EPA Method | MRL | | | |
| Arsenic | 7060A | 5 | ND | ND | 9 |
| Barium | 6010B | 5 | 27 | 53 | 64 |
| Cadmium | 6010B | 4 | ND | ND | ND |
| Copper | 6010B | 10 | ND | ND | ND |
| Iron | 6010B | 20 | ND | 736 | 8530 |
| Manganese | 6010B | 5 | 396 | 1540 | 17100 |
| Nickel | 6010B | 20 | 27 | 41 | 38 |

10

ND

ND

Approved By:

Date: 7/24/01

011009

ND

3S30EPA/102094 04907ICP.JC1 - Sample 7/24/01

Analytical Report

Client:

Analyte

Arsenic

Barium

Iron Manganese

Nickel Zinc

Cadmium Copper

J.H. Baxter & Company

Project:

Arlington Plant Groundwater/BXS-WELLS

EPA Method

7060A

6010B

6010B

6010B 6010B

6010B 6010B

6010B

Sample Matrix: Water

Service Request: K2104907

Date Collected: 7/10/01

Date Received: 7/11/01

0x3-1

Date Extracted: 7/16/01

Dissolved Metals

Units: µg/L (ppb)

| | | BIOTH | Duplica |
|----------------|--------------|--------------|--------------|
| Sample Name: | BXS-4 | BXS-5 | BXS-6 |
| Lab Code: | K2104907-004 | K2104907-005 | K2104907-006 |
| Date Analyzed: | 7/17-23/01 | 7/17-23/01 | 7/17-23/01 |
| MRL | | | |
| 5 | 5 | ND | ND |
| 5 | 32 | ND | 27 |
| 4 | ND | ND | ND |
| 10 | ND | ND | ND |
| 20 | 438 | ND | ND |
| 5 | 123 | ND | 400 |
| 20 | ND | ND | 26 |
| 10 | ND | ND . | ND |
| | | | |

124 /01

Approved By:

3S30EPA/102094 04907ICP.JC1 - Sample (2) 7/24/01

Date: 7/24/bi

Analytical Report

Client:

J.H. Baxter & Company

Project:

J.H. Baxter & Co./BXN-WELLS

Sample Matrix: Water

Service Request: K2104874 Date Collected: 7/9/01

Date Received: 7/10/01

Date Extracted: NA

Inorganic Parameters Units: mg/L (ppm)

Sample Name:

BXN-1

BXN-2

BXN-3

Lab Code:

K2104874-001

K2104874-002

K2104874-003

| Analyte | EPA Method | MRL | | | |
|-------------------------------|---------------|------|--------|----------|---------|
| pH (units) | 150.1 | - | 6.40 J | 6.50J | 6.49 J |
| Conductivity (µmhos/cm) | 120.1 | 2 | 392 J | 224 | 705 |
| Ammonia as Nitrogen | 350.3 | 0.05 | 17.0 3 | 1.10 4 5 | 1.30 OJ |
| Chemical Oxygen Demand (COD) | 410.2 | 5 | ND | 7 | 30 |
| Chloride | 300.0 | 0.2 | 40.9 | 8.4 | 23.0 |
| Nitrate+Nitrite as Nitrogen | 353.2 | 0.2 | 1.1 | 2.2 | ND |
| Solids, Total Dissolved (TDS) | 160.1 | 10 | 226 | 134 | 424 |
| Sulfate | 300.0 | 0.2 | 19.2 | 16.7 | 10.7 |
| Tannin and Lignin | SM5550B | 0.2 | 0.7 | 0.3 | 2.8 |
| Carbon, Total Organic (TOC) | 415.1 | 0.5 | 1.7 | 2.3 | 8.5 |

SM

Standard Methods for the Examination of Water and Wastewater, 18th Ed., 1992.

Analytical Report

Client:

J.H. Baxter & Company

Project:

J.H. Baxter & Co./BXN-WELLS

Sample Matrix: Water

Service Request: K2104874

Date Collected: 7/9/01

Date Received: 7/10/01

Date Extracted: NA

Inorganic Parameters

Units: mg/L (ppm)

BXN-1 DuplienTC Field B/-

BXN-4

BXN-5

BXN-6

Sample Name: Lab Code:

K2104874-004

K2104874-005

K2104874-006

| | EPA | | | | |
|-------------------------------|---------|------|--------|---------|--------|
| Analyte | Method | MRL | | | |
| pH (units) | 150.1 | | 6.70 J | 6.31 J | 5.61 5 |
| Conductivity (µmhos/cm) | 120.1 | 2 | 647 | 3310 J | ND |
| Ammonia as Nitrogen | 350.3 | 0.05 | 18.0 | 1.64 UJ | 1.57 |
| Chemical Oxygen Demand (COD) | 410.2 | 5 | 31 | 6 | ND |
| Chloride | 300.0 | 0.2 | 26.8 | 42.8 | ND |
| Nitrate+Nitrite as Nitrogen | 353.2 | 0.2 | 0.5 | 1.1 | ND |
| Solids, Total Dissolved (TDS) | 160.1 | 10 | 316 | 230 | ND |
| Sulfate | 300.0 | 0.2 | 10.0 | 19.7 | ND |
| Tannin and Lignin | SM5550B | 0.2 | 2.9 | 0.5 | ND |
| Carbon, Total Organic (TOC) | 415.1 | 0.5 | 10.4 | 2.4 | ND |

Ram 8/24/01

SM

Standard Methods for the Examination of Water and Wastewater, 18th Ed., 1992.

Approved By: WINCR

Analytical Report

Client:

J.H. Baxter & Company

Project:

J.H. Baxter & Co./BXN-WELLS

Sample Matrix: Water

Service Request: K2104874

Date Collected: 7/9/01

Date Received: 7/10/01

Date Extracted: NA Date Analyzed: 7/10/01

Coliform, Total SM 9221B

Units: MPN/100 ml

| Sample Name | Lab Code | MRL | Time Test Started | | Result |
|---------------|--------------|-----|----------------------|-----|-----------|
| BXN-1 | K2104874-001 | 2 | 1710 | hrs | 4000 J |
| BXN-2 | K2104874-002 | 2 | 1710 | hrs | NDCXYUJ |
| BXN-3 | K2104874-003 | 2 | 1710 | hrs | ND CX UJ |
| BXN-4 | K2104874-004 | 2 | 1710 | hrs | NDOXUJ |
| DAIN-3 | K2104874-005 | 2 | 1710 | hrs | 2 00 J |
| BXN-6 Field B | K2104874-006 | 2 | 1710 | hrs | ND (X) UJ |

SM

Standard Methods for the Examination of Water and Wastewater, 18th Ed., 1992.

04874WET.PW1 - BactTC 7/26/01

Analytical Report

Client:

J.H. Baxter & Company

Project:

J.H. Baxter & Co./BXN-WELLS

Sample Matrix: Water

Service Request: K2104874 Date Collected: 7/9/01 Date Received: 7/10/01

Date Extracted: 7/16/01

Dissolved Metals Units: µg/L (ppb)

| | | Sample Name: Lab Code: Date Analyzed: | BXN-1 K2104874-001 7/17-23/01 | BXN-2 K2104874-002 7/17-23/01 | BXN-3 K2104874-003 7/17-23/01 |
|-----------|---------------|---------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|
| Analyte | EPA Method | MRL | | | |
| Arsenic | 7060A | 5 | ND | ND | 19 |
| Barium | 6010B | 5 | 19 | 7 | 119 |
| Cadmium | 6010B | 4 | ND | ND | ND |
| Copper | 6010B | 10 | ND | ND | ND |
| Iron | 6010B | 20 | 3340 | ND | 31300 |
| Manganese | 6010B | 5 | 1510 | 849 | 4440 |
| Nickel | 6010B | 20 | 39 | 26 . | 44 |
| Zinc | 6010B | 10 | ND | ND | ND |

Approved By:

3S30EPA/102094 04874ICP.JC1 - Sample 7/24/01

Analytical Report

Client: J.H. Baxter & Company

Project: J.H. Baxter & Co./BXN-WELLS

Sample Matrix: Water

Analyte

Arsenic

Barium

Copper

Cadmium

Service Request: K2104874

Date Collected: 7/9/01

Date Received: 7/10/01

Date Extracted: 7/16/01

Dissolved Metals

Units: µg/L (ppb)

BXN-1 Deplicate

FICIY Blank

Sample Name: Lab Code: Date Analyzed: **BXN-4** K2104874-004 7/17-23/01

EPA Method

7060A

6010B

6010B

6010B

MRL 5 5

4

10

20

ND 120 ND

24

48

ND 20 ND ND

ND ND ND ND ND

 Iron
 6010B

 Manganese
 6010B

 Nickel
 6010B

 Zinc
 6010B

5 20 10 5330 73 ND 1540 36 ND

3370

ND ND ND ND

8/24/01

Approved By:

3S30EPA/102094 04874ICP.JC1 - Sample (2) 7/24/01 ge

Date: 7/29/61



| | K2104874 |
|------|----------|
| SR#: | 1209817 |

| An Employan-Owned Company | vc. 1 | 317 South 13 | Oth Ave K | alaa MAA | 00000 | (000) | c== =0 | - | | | | | | | | , | PAGE | | 1 | OF | | | CO | | |
|-----------------------------------------------|-----------|-------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------|---------------------------|--------|---------|--------|------------|---------|---------|--------|-------|----------------|----------------|------------|------|----------------------------------------------------------|------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------|
| PROJECT NAME 11 2 | . 1 | 317 South 13 | om Ave. • A | eiso, WA | 98626 | • (360) | 5//-/2 | 22 • | (800) 6 | 7 | 22 • F | -AX (36 | 60) 636 | - | | , ' | 7 | | 7 | | | | | · # | , , , , , , , , , , , , , , , , , , , , |
| PROJECT NUMBER PROJECT NUMBER PROJECT MANAGER | Wells | 5 - La | ndfill | | | | Mic | , / | BIEXCI | 1 | / | TEM C | // | 815140 | 7 | // | Cyanide Change | / | / / | 70x co (circle) 704-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0- | | 206[] | / / | | 021 |
| COMPANY/ADDRESS | 2/HW | that a | VE | | | AINER | Volatile Organics by GCMs | / 8 | below) | FO OF | 766 | 1664 | Sers | 51M | | | Sive Single | he | | | 40x 16. | | State of the state | A STATES | |
| Adlins | ton 1 | WA- 98 | 1223 | | 180 | 75/ | Danie | 92 | See | Tint (| TAL TAL | 040 | Cide | 181 | Sil | 10 | I Sign | le k | 65 | dal | /ð | 1.5 | アジ | 7 / | / / |
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| SAMPLER'S SIGNATURE | | | 1000 | | 7 | Semivoletilo 6 | 0/0 | | 16 F | THO! | 0 | SO | 8 8 | 12/ | 8 83 | | t be | | E C | 15 | 02/ | E | 7 | / | |
| Jum Claw | | | | | 13 | emii 60 | A dati | Se de | THE | T & T | 8 8 | Setico | | J H | SE | etals | anic la | A | | | F/. | F 18 | * | | |
| SAMPLE I.D. | DATE | TIME | LAB I.D. | | | 10 | 128/ | T.O | 100 | 0 | 10 4 | 10.0 | 105 | 0 | 000 | 1860 | 5 | 19 | Ø | 12 | 1 | 7 | 1 | | REMARKS |
| BXN-1 | 7-9 | 2:150 | 1 | Water | 4 | | | | | | | | | 0 | | X | | \geq | X | | X | \boxtimes | | | |
| BX11-2 | 7-9 | 1:000 | 2 | | 4 | | | | | | | | | | | X | | X | X | | \times | X | | | |
| BXN-3 | 7-9 | 31000 | 3 | | 4 | | | | | | | | | | | X | | \times | X | | X | X | | | |
| BXN-4 | 7-9 | 11130A | 4 | | 4 | | | | | | A. | | A) | | | X | | X | X | | X | X | | | |
| BAN-S | 7-9 | 3:000 | 5 | | 4 | | | | | | | | | | | X | • | X | X | | | X | | | |
| BXN-6 | 7-9 | 1:30p | 0 | V | 4 | | | | | | | | | | | X | | \Diamond | X | | \Diamond | \Diamond | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | | | | | | _ | - | | | _ | | - | | | | | | - | - | | | | | |
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| | | | | | _ | | - | - | - | | | | _ | | | | | | | | | | | | |
| | | INVO | ICE INFOR | MATION | | | | | | | | | | | | - | | | | | | | | | |
| REPORT REQUIREM | | P.O. # _ | TOL IN OF | INVATIO | | 11 00 | which m | | | | | | | | | | | | | | | . / | | | |
| J. Routine Report: N Blank, Surrogate, | | Bill To: | T.H.Barl | खिट | | Tota | al Metals | s: Al | As S | Sb Ba | а Ве | В Са | Cd | Co C | Cr Cu | Fe | Pb M | lg M | n Mo | Ni I | K Ag | Na | Se Si | TI S | in V Zn Hg |
| required | as | YO bo | 0x 590; | 0111- | _ | Dissolv | ed Metal | s:) AI | (As) s | Sb B | a) Be | B Ca | (Co) | Co C | Cr Cy | Fe | Pb N | Ag (M | м (б | (Ni) | K Ag | Na | Se S | r TI S | Sn V Zn Hg |
| II. Report Dup., MS, | MSD as | The same of the same of the same of the same of | OUND REC | STREET, SQUARE, SQUARE | NAME OF TAXABLE PARTY. | *INDI | CATE | STAT | E HY | DROC | ARBO | ON PR | OCE | DURE: | AK | CA | WI | NOF | RHTW | EST | ОТНІ | R: | | | CLE ONE) |
| required | | 24 h | | 48 hr. | ENIS | SPEC | IAL IN | STRU | ICTIO | NS/C | OMM | ENTS: | | | | | | | | | | | | | |
| III. Data Validation R | | 5 Da | | 10111. | | | | | | | | | | | | | | | | | | | | | |
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| IV. CLP Deliverable F | Report | Prov | vide FAX Re | sults | | A | Hn | . 0 | peop | ja | -Da | xte | | | | | | | | | | | | | |
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| Frinted Name | Firm | turco. | Pri | 11/10 | MA | W. | A | 5.15 | 500 |) | K-1 | | | | Dall | 5/ 1 II I I | 3 | | | Signat | ure | | | Date/Ti | me |



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| An Employae-Owned Company | 13 | 317 South 131 | th Ave. • Ke | lso, WA | 98626 | (360) 577 | -7222 · | (800) 6 | 95-722 | 2 · F/ | AX (360) | 636-1 | 1068 | | PAGE | =_1 | | OF | | | CO | C # | |
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| SAMPLER'S SIGNATURE | | | | | 7 | Signature Park | 0 80 | Lel F | S.H.C. | 000 | Sicioles Signature | ophia ! | 100 | 18-8 | | 3 8 | % × 6 | | 020 | / | | | |
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| REPORT REQUIREM | ENTS | | ICE INFOR | MATIO | N | Circle wh | ch metal | s are to | be ana | lyzed: | 211 |) Princip | | j | Yan 19 | | | | | | 6 | | |
| X I. Routine Report: N | Method | P.O. # _ Bill To: | TH. Pak | trac | — | Total N | letals: A | I As | Sb Ba | а Ве | В Са | Cd (| Co Cr | Cu F | Pb I | Mg M | n Mo | Ni | K Ag | Na | Se S | r TI | Sn V Zn Hg |
| Blank, Surrogate, | | POB | J.H. Bax ox Fio atco, CA | 2 | | Dissolved | Metals: | As | Sb B | a Be | B(Ca) | Cd | Co Cr | Cu F | e) Pb (| Mg) N | In Mo | Ni(| K) Ag | (Na) | Se S | r TI | Sn V Zn Hg |
| required | | Sann | atco, ca | 944 | 02 | 'INDICA | | | | | | | | | | | | | | | | | CLE ONE) |
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| IV. CLP Deliverable | Report | | vide FAX Re | | dayoj | Atta | : 64 | ergi | at | such | er | | | | | | | | | , | | | 1 |
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| An Employed Owned Company | 1 | 1317 South 1 | 3th Ave. • H | (elso, WA | 98626 | • (36 | 0) 577-7 | 222 • | (800) | 695-72 | 222 • | FAX (3 | 360) 63 | 6-106 | В | | PAG | E_ | | _ OF | = | | _ cc | OC #_ | / | 10 |
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| PROJECT NAME I ROME PROJECT NAME PROJECT MANAGER COMPANY/ADDRESS ALIUSTO PHONE # 360 436 - 2146 SAMPLER'S SIGNATURE | Mori Harri | toring | Wells 8003 436- | 3030 | | | Volatile O 8270 Diss by GC | 1 | 1 | 7 | 7 | 7 | 7 | 7 | 5/ | 7 | Cyanic Cy | 7 | 3. 800 Cl SQL PO Cl | 7 | 10.3020 17 AOX 15. | 7 | 7 |)C #_ | | 1000 |
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| | | INVO | CE INICOD | | | | | | | | | | | | 9 | | | | 1, 1 | | | | | | | |
| I. Routine Report: Me Blank, Surrogate, as required | Ear Water CA 944402 | | | | | Circle which metals are to be analyzed: Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr TI Sn V Zn Hg Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr TI Sn V Zn Hg *INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORHTWEST OTHER: (CIRCLE ONE) | | | | | | | | | | | | | | | Hg Hg | | | | | |
| II. Report Dup., MS, M required | SD as | TURNARO | | | | SPEC | CATE | STRI | E HYL | NEVE | ARBO | N PR | OCED | URE: | AK | CA | WI | NOR | HTW | EST | OTHE | R: | | (CIRC | LE ONE) | |
| III. Data Validation Repo (includes all raw data IV. CLP Deliverable Rep | a) | 24 hr 5 Day Stand Provide | , | ays) | OF EGIAL INSTRUCTIONS/COMMENTS: | | | | | | | | | | | | | | | | | | | | | |
| V. EDD Requested Report Date Report Date | | | | | | 10 | | New | ryL | ars | on | | | | | | | | Fi | El | d | F | Ita | 572 | 5d | |
| Signature Date Printed Name Fire | SIL | eu | RELINQUISHED BY: Date/Time Signature RECEIVED BY: Date/Time Signature Date/Time | | | | | | | | | | | | | | | | | | | | | | | |



| SR#: | 12104407. |
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1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222 • FAX (360) 636-1068

| PROJECT MANAGER | Wells Octh 1888 | MEYE tust 1 | C)E | 1 | | Semivolatile CONTAINERS | Panics by GCAMS | 8021 | See below) BTEX [] | int (F)O) C | 10 1684 SET | Sugener HEM C | Sides USD | 1-8751M 81514 | SIM SIMO | | Cyanide C | Hex-Chrom | SS. 00 4. FANT | TOX 8020 | 40x 1650 C | 1000 P | 101.10 mg | Shed | | tapia |
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| PHONE # 35-34- SAMPLER'S SIGNATURE SAMPLE I.D. | 4 | FAX# 3lc0 4 | 35-363 LAB I.D. | | NUMBER | Semivolatile C | Volatile Organ | Hydrocarbon Gas | Finge | 500 | 418 | Pesticides/H C | Chloropheno: | PAHS Tetra | GCMS-SIM | Metals Total | Cyanide C | THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SE | | TOX 9026 | 4 | | The Co | | RE | MARKS |
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| Bx5-2. | | 2:00pm | 2 | 1 | 4 | | | | | | | | | | | \forall | | X | X | | X | X | | | | |
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| REPORT REQUIREMENTS X I. Routine Report: Method Blank, Surrogate, as required II. Report Dup., MS, MSD as required III. Data Validation Report (includes all raw data) IV. CLP Deliverable Report V. EDD INVOICE INFORMATION P.O. # Bill To: T.H. Rexter* Co. O Box 590 2 TURNAROUND REQUIREMENTS 24 hr. 5 Day X Standard (10-15 working days) Provide FAX Results Requested Report Date | | | | | | | | | | | | | | | | | | | | | Zn) Hg | | | | | |
| RELINQUIS Jun Dawzon Signature Jun Clawson Conted Name | Va. | RELINQUISHED BY: RECEIVED BY: Date/Time Signature Date/Time Prints I have Firm | | | | | | | | | | | | | | | | | | | | | | | | |